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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/651,910	08/29/2003	Sami Kalajo	875.0124.U1(US)	9575		
29683	7590 09/13/2005		EXAM	EXAMINER		
HARRING: 4 RESEARC	FON & SMITH, LLP	MEHRPOUR, NAGHMEH				
	CT 06484-6212	ART UNIT	PAPER NUMBER			
•		2686				
		DATE MAIL ED: 00/12/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

<del></del>			Application No.		Applicant(s)				
Office Action Summary		10/651,910		KALAJO ET AL.					
		Examiner		Art Unit					
		Naghmeh Me	:hrpour	2686					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
2a)□	2a) This action is <b>FINAL</b> . 2b) This action is non-final.								
Dispositi	on of Claims								
5)□ 6)⊠ 7)□ 8)□ <b>Applicati</b> 9)□	Claim(s) 1-25 is/are pending in the application.  4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed.  Claim(s) 1-25 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or on Papers  The specification is objected to by the Examine. The drawing(s) filed on is/are: a) acceeded a policant may not request that any objection to the of Replacement drawing sheet(s) including the correction.	wn from consi or election requ er. epted or b) drawing(s) be t	uirement. objected to by the Eneld in abeyance. See	e 37 CFR 1.85(a).	FR 1.121(d).				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	ınder 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>									
2) 🔲 Notic 3) 🔯 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 12/11/03.		Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	ite	<b>D-152</b> )				

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#### **DETAILED ACTION**

## **Information Disclosure Statement**

1. The information disclosure statement filed reference listed in the information Disclosure Submitted on 12/11/03 have been considered by the examiner (see attached PTO-1449

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-25, are rejected under 35 U.S.C. 102(e) as being anticipated by Pehlke et al. (US Publication 2005/0032488 A1).

Regarding claims 1, 9, 17, 20-21, Pehlke teaches/method/mobile terminal a power amplifier module operable over a range of output power levels (0093), comprising an output transistor having an input coupled to an input node of the power amplifier module and an output coupled to an output node of the power amplifier module (0030), the power amplifier module further comprising circuitry for automatically compensating a load line of the output transistor for impedance variations appearing at the output node (0055-0060), the circuitry comprising detection circuitry for generating a first detection signal having a value that is indicative of the current flowing through the

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output transistor and a second detection signal having a value that is indicative of the voltage appearing at the output of the output transistor(0064-0065), and further comprising compensation circuitry for controlling the generation of a plurality of power amplifier bias current and bias voltage signals to have values that are a function of the values of the first and second detection signals (0066, 0079-0080), and the current output power level of the power amplifier module (0042, 0068, 0081-0082).

Regarding claims 2, 10, Pehlke teaches a power amplifier module/method/mobile terminal as in claim 1, further comprising an impedance matching circuit coupled between the output of the output transistor and the output node, the impedance matching circuit presenting a variable impedance that is controlled by an output signal from the compensation circuitry (0072-0073).

Regarding claims 3, 11, Pehlke teaches a power amplifier module/method/mobile as in claim 2, where the output signal from the compensation circuitry is generated to have a value that is a function of the value of the first detection signal and the current output power level (0060).

Regarding claims 4, 12, Pehlke teaches a power amplifier module/method/mobile as in claim 2, where the output signal from the compensation circuitry is generated when the current output power level exceeds a predetermined output power level (0060-0061).

Regarding claims 5, 15, Pehlke teaches a power amplifier module/method/mobile as in claim 1, where the compensation circuitry makes a change to at least one of the plurality of power amplifier bias current and bias voltage signals

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when the current output power level exceeds a predetermined output power level (0068, 0071-0071).

Regarding claims 6, 13-14, 18, 22, Pehlke teaches a power amplifier module/method/mobile as in claim 2, where the compensation circuitry makes a change to at least one of the plurality of power amplifier bias current and bias voltage signals when the current output power level exceeds a first predetermined output power level, and where the output signal from the compensation circuitry to the impedance matching circuit is generated when the current output power level exceeds a second predetermined output power level that is greater than the first predetermined output power level (0061-0069).

Regarding claims 7, 15, Pehlke teaches a power amplifier module/method/mobile as in claim 1, where the compensation circuitry controls the generation of the power amplifier bias current signal as a function of a value of the first detection signal and a value of a signal that is indicative of the current output power level (0060-0065), and controls the generation of the power amplifier bias voltage signal as a function of a value of the second detection signal and the value of the signal that is indicative of the current output power level (0068-0069).

Regarding claims 8, 16, 19, 23-24, Pehlke teaches amplifier module/mobile/method as in claim 1, where the detection circuitry comprises a current mirror in parallel with the output transistor for generating the first detection signal, and a rectifier coupled to the output of the output transistor for generating the second detection signal (0065, 0075-0078).

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Regarding claims 25, Pehlke teaches a mobile radio communication terminal as in claim 21, where a signal transmitted from said antenna comprises a wideband code division, multiple access signal (0003, 0093).

#### Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Weiland et al. (US Patent 5,590,408) disclose reverse link, transmit power correction and limitation in a radio telephone system

**Busking** (US Patent 5,659,253) disclose temperature compensated radio frequency detector circuit

Arell et al. (US Patent 6,753,743) disclose multi-mode amplifier bias circuit

Ishii (US Patent 5,862,458) disclose impedance matching circuit in transmitter circuit and control method thereof

**Heck et al.** (US Patent 5,8898,912) disclose direct current offset compensation method and apparatus

5. Any responses to this action should be mailed to:

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Naghmeh Mehrpour whose telephone number is 571-272-7913. The examiner can normally be reached on 8:00- 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold be reached (571) 272-7905.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NM

September 1, 2005

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